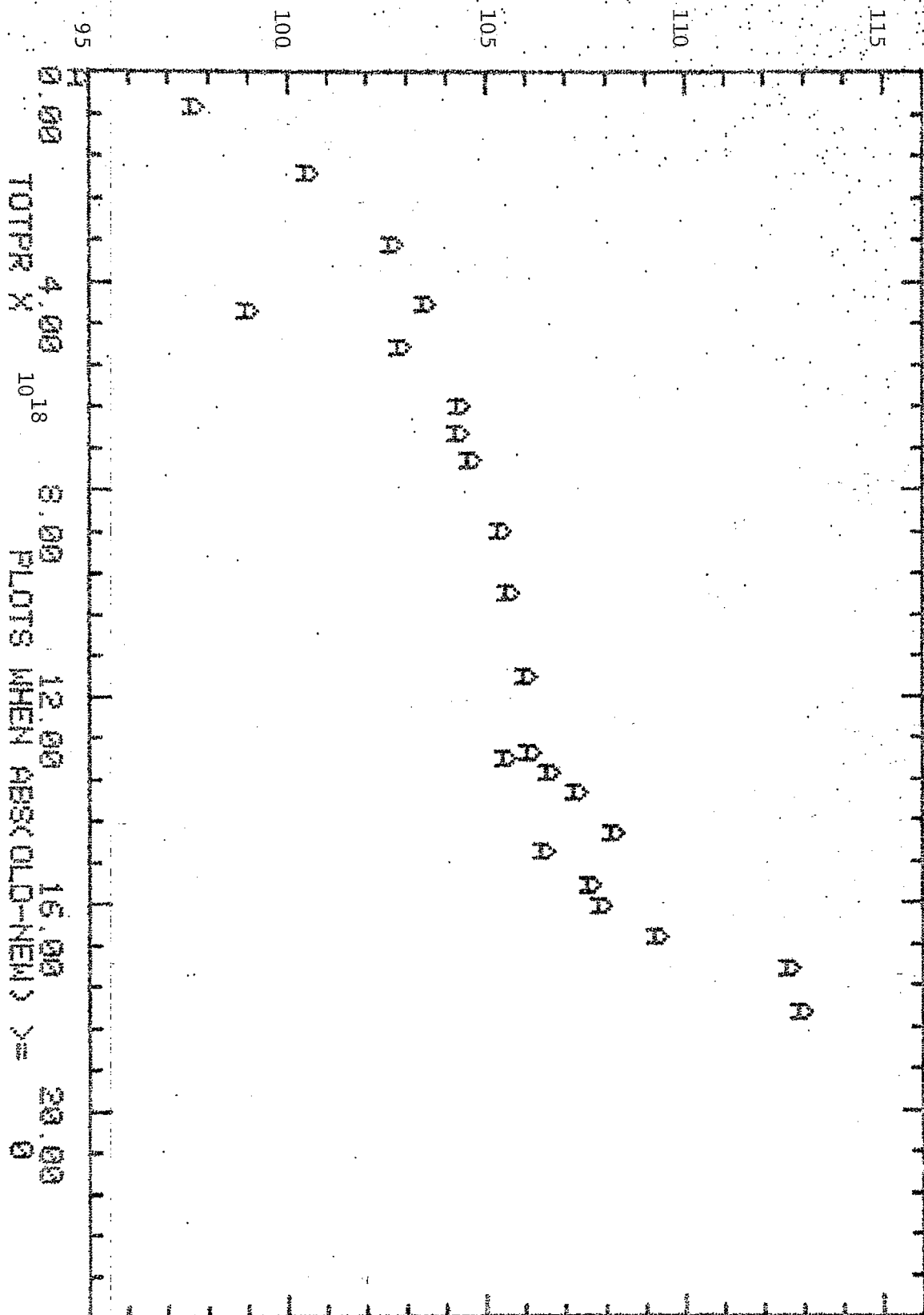


Date 11/80-12/80 Time \_\_\_\_\_ Experimenters J.W. GlennSubject SEC Response ContinuedOBSERVATIONS AND CONCLUSION

The response of the SEC that was installed on April 16, 1980 is recorded for the fall run of the Slow Beam. Figure 1 shows the response of the SEC as a function of traversing protons since its installation. The data for the first  $13 \times 10^{18}$  protons were reported in Studies Report No. 125. An additional  $5 \times 10^{18}$  protons traversed during the fall run and data are plotted. The data for this run were normalized to  $1.528 \times 10^9$  protons per count as were the spring data. The digitalization electronics were checked and have drifted less than 1%. The response continues to increase and is becoming more erratic.

Conclusion: Until a new SEC is available for this location, the "software" calibration will be updated weekly using ring loss monitor and current transformer data.

Fig. 1. SEC Response ( $\frac{SEC}{1-RM}$ )



pr.

Fig. No.

Dec.